

Number Properties: Hard Practice Paper 4

Q1. What is the highest common factor (HCF) of 72 and 120?

- A. 6 B. 8 C. 12 D. 24 E. 36

Q2. What is the lowest common multiple (LCM) of 14 and 21?

- A. 7 B. 28 C. 42 D. 84 E. 294

Q3. Which of these numbers has exactly 4 factors?

- A. 15 B. 16 C. 24 D. 25 E. 36

Q4. Exactly one of these numbers is prime. Which is it?

- A. 143 B. 147 C. 149 D. 153 E. 155

Q5. Chocolate bars come in packs of 12 and straws come in packs of 18. What is the smallest number of each that can be bought so that there is one straw for every chocolate bar?

- A. 24 B. 30 C. 36 D. 72 E. 216

Q6. What is the largest two-digit prime number?

- A. 89 B. 91 C. 93 D. 97 E. 99

Q7. What is 3 squared added to 4 squared?

- A. 12 B. 14 C. 25 D. 49 E. 144

Q8. What is the difference between -12 and 5?

- A. -17 B. -7 C. 7 D. 12 E. 17

Q9. Which of these numbers is a multiple of 9 and also a square number?

- A. 27 B. 45 C. 63 D. 81 E. 99

Q10. A ferry leaves every 25 minutes and a boat leaves every 40 minutes. They both leave at 10:00 am. At what time do they next leave together?

- A. 11:40 am B. 12:20 pm C. 1:20 pm D. 2:00 pm E. 4:40 pm

Q11. A number is a multiple of 5 and has exactly three factors. What is the number?

- A. 5 B. 10 C. 15 D. 25 E. 50

Q12. 196 chairs are arranged in a square, with the same number of chairs in each row as there are rows. How many rows are there?

- A. 12 B. 13 C. 14 D. 16 E. 49

Q13. How many multiples of 6 are there between 1 and 100?

- A. 14 B. 15 C. 16 D. 17 E. 20

Q14. What is the largest prime factor of 60?

- A. 2 B. 3 C. 5 D. 6 E. 15

Q15. A lift is 3 floors below ground level. It goes up 9 floors, then down 2 floors. Which floor is it on now?

- A. -14 B. -4 C. 4 D. 8 E. 14